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## EUROPEAN PATENT APPLICATION

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① Films from PVA modified with nonhydrolyzable anionic comonomers in the form of pouches containing cleaning compositions.

② A PVA film modified with anionic comonomers is provided for use as a water-soluble seal or pouch for alkaline or borate-containing cleaning compositions. The films comprise copolymers of 90-100% hydrolyzed vinyl alcohol with a nonhydrolyzable anionic comonomer, and have molecular weights characterized by a viscosity range of 4-35 cPs. The films are resistant to insolubilization caused by alkaline or borate-containing additives, are storage stable over a wide range of temperature and humidity storage conditions, rapidly and fully solubilize in a wash solution, and do not significantly impair cleaning performance of an additive enclosed within.

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# EUROPEAN SEARCH REPORT

Application Number

EP 88 30 3799

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	GB-A-2 090 603 (COLGATE-PALMOLIVE) * Whole document *	1,2	C 11 D 17/04
Y	US-A-4 557 852 (G.O. SCHULZ et al.) * Column 4, line 34; claims *	1-2	
Y	EP-A-0 079 712 (CLOROX) * Claims * & US-A-4 626 372 (Cat. D)	1-2	
Y	EP-A-0 160 254 (HENKEL) * Claims *	1-2	
Y	US-A-4 156 047 (R.D. WYSONG) * Column 1, lines 52-54; claims *	1-2	
Y	US-A-3 505 303 (M.K. LINDEMANN) * Whole document *	1-2	
P,X	EP-A-0 223 175 (HENKEL) * Whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			C 11 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-12-1989	Examiner GOLLER P.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			